



Prediction

## Advantages of a Bridge Management System

**Greater organizational efficiency** through objective analysis

- Understandable
- Reasonable
- Flexible
- Defendable



Cost Models

**Accurate and meaningful data** for analysis and reporting

- Performance
- Condition
- Costs
- Accomplishments



Data

**Continuous improvement of decision-making**

- Better management of bridge inventory
- Predictive models for long range budgeting
- Essential trade offs for large number of bridges
- Enhances safety and bridge service life

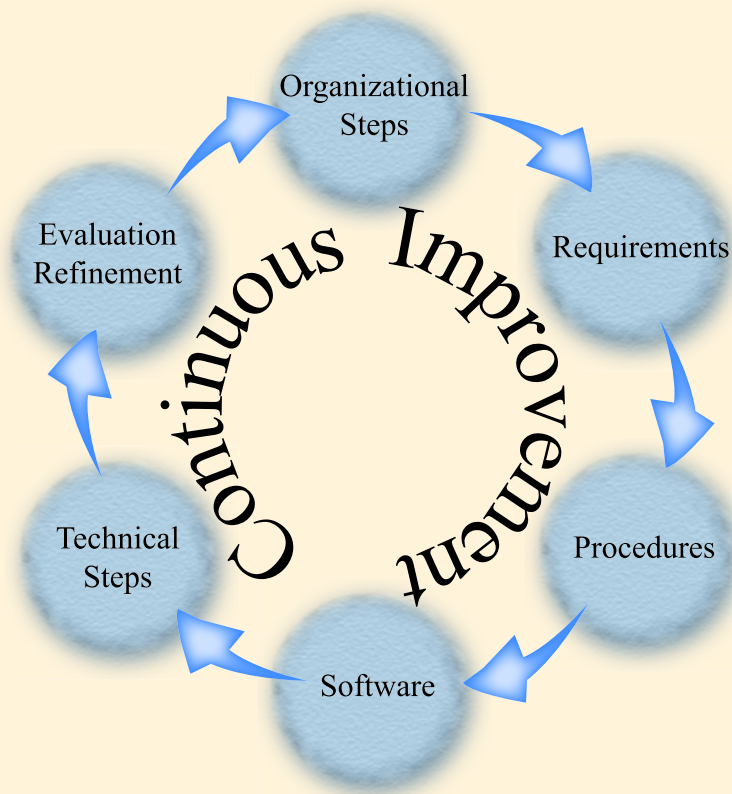


Preservation Optimization



Improvement Optimization

## BMS: A Stride Towards Strategic Management



Federal Highway Administration  
400 7th Street S.W.  
Washington, DC 20590  
Tel: (202) 366-0392

# BRIDGE MANAGEMENT SYSTEMS:

## An Overview

# BRIDGE MANAGEMENT SYSTEMS:

## An Overview

### What is a BMS?

Systematic process of managing bridges cost-effectively by using engineering analyses, economic principles, and sound business practices

#### Project Level



#### Network Level

### Benefits of a BMS...

... for me and my organization:

Produces essential information on:

- Inventory, history, and condition
- Implications of project decisions
- Impact of alternative strategies
- Value of preventive maintenance

Simplifies development of:

- Budgets for bridges
- Actions for preservation or improvement
- Reports for effective management

### Why use a BMS?

#### Analysis

- Monitor bridge performance
- Determine bridge needs (network/project)
- Evaluate alternate funding scenarios
- Examine user impacts and needs

#### Information and data integration

- Produces accurate and consistent data
- Accessible and user friendly
- Integrates data from other asset management systems
- Facilitates information sharing

### Implementing a BMS...

Top management support

Perform self-assessment

Define goals

Develop action plan

Coordinate with:

- Maintenance
- Bridge
- Construction
- Programming/Planning

Designate a BMS champion

Implement the system